## WHAT IS CLAIMED:

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virus.

1	1. An expression plasmid comprising an RNA polymerase I (pol I) promoter					
2	and pol I terminator sequences, which are inserted between an RNA polymerase II (pol II)					
3	promoter and a polyadenylation signal.					
1	2. The expression plasmid of claim 1 wherein the pol I promoter is proximal					
2	to the polyadenylation signal and the pol I terminator sequence is proximal to the pol II promoter.					
	3. The expression plasmid of claim 1 wherein the pol I promoter is proximal					
Are the second of the second s	to the pol II promoter and the pol I terminator sequence is proximal to the polyadenylation signal.					
	1 C.1. 1					
1	4. The expression plasmid of claim 1 wherein the plasmid corresponds to a					
1 12 13 14	plasmid having a map selected from the group consisting of pHW2000, pHW11 and pHW12.					
1	5. The expression plasmid of claim 1, further comprising a negative strand					
2	RNA virus viral gene segment inserted between the pol I promoter and the termination signal.					
1	6. The expression plasmid of claim 5, wherein the negative strand RNA virus					
2	is a member of the Orthomyxoviridae virus family.					
1	7. The expression plasmid of claim 6, wherein the virus is an influenza A					

1		8.	The expression plasmid of claim 7, wherein the viral gene segment encodes
2	a gene selected	d from	the group consisting of a viral polymerase complex protein, M protein, and
3	NS protein; wh	herein t	he genes are derived from a strain well adapted to grow in cell culture or
4	from an attenu	ated str	rain, or both.
1		9.	The expression plasmid of claim 6, wherein the virus is an influenza B
2	virus.		
	from the group	10.	The expression plasmid of claim 8 wherein the plasmid has a map selected sting of pHW241-PB2, pHW242-PB1, pHW243-PA, pHW245-NP,
3	pHW247-M, a	nd pHV	W248-NS.
11	from the group	11.	The expression plasmid of claim 8 wherein the plasmid has a map selected sting of pHW181-PB2, pHW182-PB1, pHW183-PA, pHW185-NP,
3	pHW187-M, a	nd pHV	W188-NS.
1		12.	The expression plasmid of claim 7, wherein the viral gene segment encodes
2	a gene selected	l from	the group consisting of an influenza hemagglutinin (HA) gene and a
3	neuraminidase	(NA)	pene.

The expression plasmid of claim 12, wherein the influenza gene is from a

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13.

1 pathogenic influenza virus strain.

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1 14. The expression plasmid of claim 12, wherein the plasmid has a map
2 selected from the group consisting of pHW244-HA, pHW246-NA, pHW184-HA, and pHW1863 NA.

strand RNA viruses from cloned viral cDNA comprising a set of plasmids wherein each plasmid comprises one autonomous viral genomic segment, and wherein the viral cDNA corresponding to the autonomous viral genomic segment is inserted between an RNA polymerase I (pol I) promoter and terminator sequences, thereby resulting in expression of vRNA, which are in turn inserted between a RNA polymerase II (pol II) promoter and a polyadenylation signal, thereby resulting in expression of viral mRNA.

- 16. The minimum plasmid-based system of claim 15 wherein the pol I promoter is proximal to the polyadenylation signal and the pol I terminator sequence is proximal to the pol II promoter.
- 1 17. The minimum plasmid-based system of claim 15 wherein the pol I promoter is proximal to the pol II promoter and the pol I terminator sequence is proximal to the polyadenylation signal.

1	18.	The plasmid-based system of claim 15, wherein the negative strand RNA
2	virus is a member o	f the Orthomyxoviridae virus family.
1	19.	The plasmid-based system of claim 18, wherein the virus is an influenza A
2	virus.	
1	20.	The plasmid-based system of claim 18, wherein the virus is an influenza B
2	virus.	
or of the second		
	21.	The plasmid-based system of claim 19, wherein the viral gene segment
<u>.</u> 12	encodes a protein s	elected from the group consisting of a viral polymerase complex protein, an M
3	protein and an NS	protein; wherein said genes are from a strain well adapted to grow in cell
4		attenuated strain, or both.
======================================	22.	The plasmid-based system of claim 19, wherein the viral genomic segments
2		ich encode a protein selected from the group consisting of hemagglutinin and
3		both; wherein said genes are from a pathogenic influenza virus.
5		
1	23.	The plasmid-based system of claim 19 wherein said system comprises one
2		naving a map selected from the group consisting of pHW241-PB2, pHW242-

PB1, pHW243 -PA, pHW244-HA, pHW245-NP, pHW246-NA, pHW247-M, and pHW248-NS.

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- 1 24. The plasmid-based system of claim 19, wherein said system comprises one
- or more plasmids having a map selected from the group consisting of pHW181-PB2, pHW182-
- 3 PB1, pHW183 -PA, pHW184-HA, pHW185-NP, pHW186-NA, pHW187-M, and pHW188-NS.
  - 25. A host cell comprising the plasmid-based system of claim 15.
  - A host cell comprising the plasmid-based system of claim 18.
  - 27. A host cell comprising the plasmid-based system of claim 19.
  - 28. A host cell comprising the plasmid-based system of claim 22.
  - 29. A method for producing a negative strand RNA virus virion, which method comprises culturing the host cell of claim 25 under conditions that permit production of viral proteins and vRNA or cRNA.
  - 30. A method for producing an *Orthomyxoviridae* virion, which method comprises culturing the host cell of claim 26 under conditions that permit production of viral proteins and vRNA or cRNA.
  - 1 31. A method for producing an influenza virion, which method comprises 2 culturing the host cell of claim 27 under conditions that permit production of viral proteins and

1 vRNA or cRNA.

intramuscularly in the subject.

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1		32.	A method for producing a pathogenic influenza virion, which method
2	comprises cult	turing tl	ne host cell of claim 28 under conditions that permit production of viral
3	proteins and v	RNA o	r cRNA.
1		33.	A method for preparing a negative strand RNA virus-specific vaccine,
2	which method	l compr	ises purifying a virion produced by the method of claim 29.
11 1 2		34.	The method according to claim 33, which further comprises inactivating the
	virion.		
1		35.	The method according to claim 33, wherein the negative strand RNA virus
1 2	is an attenuate	ed virus	i.
1		36.	A method for vaccinating a subject against a negative strand RNA virus
2	infection, wh	ich met	hod comprises administering a protective dose of a vaccine of claim 33 to the
3	subject.		
			1 1 C
1		37.	A method for vaccinating a subject against a negative strand RNA virus
2	infection, wh	ich met	hod comprises injecting a protective dose of a vaccine of claim 33

1		38.	A method for vaccinating a subject against a negative strand RNA virus
2	infection, whi	ch metł	nod comprises administering a vaccine of claim 33 intranasally to the subject
1		39.	A method for generating an attenuated negative strand RNA virus, which
2	method comp	rises:	
3		(a)	mutating one or more viral genes in the plasmid-based system of claim 15;
4		and	
5		(b)	determining whether infectious RNA viruses produced by the system are
<u>5</u> 6		actenu	nated.
1		40.	A composition comprising a negative strand RNA virus virion, wherein
<u></u> 2	viral internal	protein	s of the virion are from a virus strain well adapted to grow in culture or from
12 13 4	an attenuated	l strain.	or both and viral antigen proteins, of the virion are from a pathogenic virus
₽ <b>4</b> 4	strain.		
1		41.	A composition comprising a negative strand RNA virus virion produced by
2	the method o	of claim	29.